

What is claimed is:

1. Method for performing speech recognition, said method comprising the steps of:
  - (a) receiving a speech signal locally from a user via a client device;
  - 5 (b) performing speech recognition on said speech signal in accordance with an embedded speech recognizer of said client device to produce a recognizable text signal, wherein said embedded speech recognizer employs a language model;
  - (c) adapting said performance of speech recognition based on at least one local parameter; and
  - 10 (d) forwarding said recognizable text signal to a remote server.
2. The method of claim 1, wherein said at least one local parameter is representative of an environmental noise.
- 15 3. The method of claim 1, wherein said at least one local parameter is representative of an acoustic environment.
4. The method of claim 1, wherein said at least one local parameter is representative of a pronunciation of said user.
- 20 5. The method of claim 1, further comprising the step of:
  - (e) updating said language model by dynamically receiving an update from said remote server in accordance with said recognizable text signal.
- 25 6. The method of claim 5, wherein said remote server generates said update in accordance with a task model.
7. The method of claim 6, wherein said remote server monitors one or more states of said task model to determine progress toward satisfying a goal of said user.
- 30 8. The method of claim 1, further comprising the step of:
  - (e) storing at least a portion of said language model in a cache of said client device.

9. Method for performing speech recognition, said method comprising the steps of:
- (a) receiving a recognizable text signal representative of a user speech signal from a client device, wherein said recognizable text is generated using a speech recognizer having a language model on said client device, and wherein said recognizable text is generated in accordance with adapting said performance of speech recognition based on at least one local parameter; and
- (b) processing said recognizable text signal in accordance with a task model.
10. The method of claim 9, wherein said at least one local parameter is representative of an environmental noise.
11. The method of claim 9, wherein said at least one local parameter is representative of an acoustic environment.
12. The method of claim 9, wherein said at least one local parameter is representative of a pronunciation of said user.
13. The method of claim 9, further comprising the step of:
- (c) forwarding a language model update to said client device in accordance with said recognizable text signal.
14. The method of claim 13, wherein said remote server monitors one or more states of said task model to determine progress toward satisfying a goal of said user.
15. A distributed system for performing speech recognition, said system comprising:
- a client device for receiving a speech signal locally from a user, wherein said client device having an embedded speech recognizer with a language model for performing speech recognition on said speech signal to produce a recognizable text signal, and wherein said embedded speech recognizer further adapts said performance of speech recognition based on at least one local parameter; and
- a remote server for receiving said recognizable text signal.

16. A client device for performing speech recognition, said client device comprising:

means for receiving a speech signal locally from a user;

5 means for performing speech recognition on said speech signal to produce a recognizable text signal, wherein said speech recognition means employs a language model;

means for adapting said performance of speech recognition based on at least one local parameter; and

means for forwarding said recognizable text signal to a remote server.

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17. The client device of claim 16, wherein said at least one local parameter is representative of an environmental noise.

18. The client device of claim 16, wherein said at least one local parameter is  
15 representative of an acoustic environment.

19. The client device of claim 16, wherein said at least one local parameter is representative of a pronunciation of said user.

20. The client device of claim 16, further comprising means for updating said language model by dynamically receiving an update from said remote server in  
20 accordance with said recognizable text signal.

21. The client device of claim 16, further comprising:  
25 a cache for storing at least a portion of said language model.

22. A server for performing speech recognition, said server comprising:  
means for receiving a recognizable text signal representative of a user speech  
signal from a client device, wherein said recognizable text is generated using a speech  
30 recognizer having a language model on said client device, and wherein said  
recognizable text is generated in accordance with adapting said performance of speech  
recognition based on at least one local parameter; and

means for processing said recognizable text signal in accordance with a task model.

23. The server of claim 22, wherein said at least one local parameter is representative  
5 of an environmental noise.

24. The server of claim 22, wherein said at least one local parameter is representative of an acoustic environment.

10 25. The server of claim 22, wherein said at least one local parameter is representative of a pronunciation of said user.

26. The server of claim 22, further comprising:  
means for forwarding a language model update to said client device in  
15 accordance with said recognizable text signal.

27. The server of claim 26, wherein said forwarding means is a grammar manager.

28. The server of claim 22, further comprising:  
20 means for monitoring one or more states of said task model to determine progress toward satisfying a goal of said user.

29. The server of claim 28, wherein said monitoring means is a dialog manager.

25 30. A computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps comprising of:

- (a) receiving a speech signal locally from a user via a client device;
- (b) performing speech recognition on said speech signal in accordance with an  
30 embedded speech recognizer of said client device to produce a recognizable text signal, wherein said embedded speech recognizer employs a language model;
- (c) adapting said performance of speech recognition based on at least one local parameter; and

